



DEPARTMENT OF THE NAVY  
COMMANDER  
NAVAL METEOROLOGY AND OCEANOGRAPHY COMMAND  
1020 BALCH BOULEVARD  
STENNIS SPACE CENTER, MS 39529-5005

NAVMETOCCOMINST 3144.1D CH-1  
N3

19 JUL 1996

NAVMETOCCOM INSTRUCTION 3144.1D CHANGE TRANSMITTAL 1

From: Commander, Naval Meteorology and Oceanography Command

Subj: U.S. NAVY MANUAL FOR SHIP'S SURFACE WEATHER OBSERVATIONS

Encl: (1) Revised Appendix B

1. Purpose. To issue change 1 to the basic instruction.
2. Actions. Delete appendices B and C of original instruction and replace with enclosure (1). Make the following pen and ink changes to the basic instruction:
  - a. Page v, delete line 2.6.8 (Column 14 - Remarks).
  - b. Page xi, Appendix B, delete "Aerographer's Mate".
  - c. Page xi, delete Appendix C.
  - d. Page II-2-1, delete paragraph 2.2.1c.
  - e. Page II-2-1, delete paragraph 2.2.2c.
  - f. Pages II-3-3 and II-3-4, paragraph 2.3.5.2a, delete the second sentence and replace with, "Remarks elaborating on surface-based partial obscurations follow the format and order of entry for obscurations aloft, but are assigned a height of "000" (i.e., FG FEW000)."
  - g. Page II-5-11, Note #2, change the first sentence to read "... is less than 6 nautical miles ..."



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h. Page II-5-15, Table II-5-2, add the following note at the bottom of the table, "Note: "WSHIFT", "PK WIND", gusts and squall information is only applicable to OA divisions (AGs) for ships at anchor, or berthed, and having appropriate recording equipment, i.e., SMOOS."

i. Page II-6-6, paragraph 2.6.6, change paragraph to read, "Enter the altimeter setting in inches of mercury using tens, units, tenths, and hundredths (without the decimal point); e.g., enter 2994 for an altimeter setting of 29.94 inches Hg. Prefix the numerical entry with an "E" when estimated. Enter "M" for a missing altimeter setting."

j. Pages II-6-6 and II-6-7, paragraph 2.6.8, delete entire paragraph.

k. Page II-8-6, paragraph 2.8.4b, delete squall definition and replace with, "A strong wind characterized by a sudden onset in which the wind speed increases at least 16 knots and is sustained at 22 knots or more for at least one minute."

l. Page II-8-6, paragraph 2.8.5, change sentence to read, "Enter the true direction from which the wind is blowing, to the nearest 10 degrees using three figures. Directions less than 100 degrees shall be preceded with a zero, i.e., Winds from due east shall be coded as 090.)"

m. Page II-8-6, paragraph 2.8.7; add "AG" prior to the beginning of the first sentence.

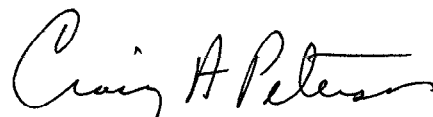
n. Page III-3-1, Paragraph 3.3.1.2, Note 2, change sentence to read, "... aloft are not considered ..."

o. Page III-3-3, paragraph 3.3.1.7, change sentence to read, "... since the last synoptic observation."

p. Page III-3-3, paragraph 3.3.1.7a, add last sentence, "Only in this case will  $i_x$  be encoded as "3"."

q. Page III-3-3, paragraph 3.3.1.7c(1), change sentence to read, "Report the past weather for the last five hours preceding the last hour, (i.e., 1200Z to 1700Z for W<sub>1</sub>W<sub>2</sub>, and 1700Z to 1800Z for ww.)"

r. Page III-3-3, paragraph 3.3.1.7(2), change the first sentence to read, "Report the past weather for the last two hours preceding the last hour, (i.e., 0600Z to 0800Z for W<sub>1</sub>W<sub>2</sub>, and 0800Z to 0900Z for ww.)"

  
CRAIG A. PETERSON  
Chief of Staff

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## Appendix B

### INDEX FOR DATA COLUMNS IN PART I CNMOC 3141/3 SURFACE WEATHER OBSERVATIONS FORM

#### B.1 TYPE OF OBSERVATION (Column 1)

- |    |   |                         |
|----|---|-------------------------|
| b. | page II-1-1, paragraphs 2.1.3.1,<br>2.1.3.2 | proper entry procedures |
| a. | page II-2-1, paragraph 2.2.1                | requirement for entry   |
- 

#### B.2 DATE AND TIME OF OBSERVATION (Column 2)

- |    |                                    |                         |
|----|------------------------------------|-------------------------|
| a. | page II-1-2, paragraph 2.1.4.1     | proper entry of time    |
| b. | page II-2-1, paragraph 2.2.2       | requirement for entry   |
| c. | page II-2-1, paragraph 2.2.2a (ME) | proper entry procedures |
| d. | page II-2-1, paragraph 2.2.2b (SP) | proper entry procedures |
- 

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- |    |  |   |
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| b. | page II-8-6, paragraph 2.8.6<br>(Col 4 speed)          | requirement for entry/<br>proper entry procedures |
| c. | page II-8-6, paragraph 2.8.7 (AG)<br>(Col 5 character) | requirement for entry of<br>gust                  |
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| b. | page II-4-4, paragraph 2.4.4a,b,c | proper entry procedures |
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| b. | page II-5-3, paragraph 2.5.2.3                          | precipitation           |
| c. | page II-5-5, paragraph 2.5.2.4                          | obstructions to vision  |
| d. | page II-5-9, paragraph 2.5.3                            | present weather entries |
| e. | page II-5-11, Table II-5-1                              | present weather groups  |
| f. | page II-5-18, Tables                                    | precipitation intensity |
- 

**B.6 SKY CONDITION** (Column 10)

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| a. | page II-3-2, paragraph 2.3.5.1 | sky cover amounts         |
| b. | page II-3-4, paragraph 2.3.5.3 | sky cover classifications |
| c. | page II-3-7, paragraph 2.3.7   | sky cover and ceilings    |
| d. | page II-3-8, paragraph 2.3.7.2 | layer heights             |
| e. | page II-3-17, Table II-3-8     | sky cover contractions    |

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**B.7 TEMPERATURE, DEW POINT, AND WET-BULB** (Columns 11, 12, 20)

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**B.8 REMARKS AND SUPPLEMENTAL CODED DATA** (Column 14)

- a. page II-5-9, paragraph 2.5.4,a,b,c requirement for entry/  
proper entry procedures
- b. page II-5-13, Table II-5-2 significant remarks

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(Columns 13, 22, 22a)

- a. page II-6-6, paragraph 2.6.6  
Altimeter (Col 13) requirement for entry/  
proper entry procedure
- b. page II-6-6, paragraph 2.6.7  
Station Pressure (Col 22) requirement for entry/  
proper entry procedure
- c. page II-6-6, paragraph 2.6.5  
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**B.11 SKY COVER TOTAL** (Column 17)

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| b. | page II-10-1, paragraph 2.10.2,<br>a,b,c | requirement for entry/<br>proper entry procedures |
| c. | page III-2-2, Table III-2-1              | Quadrants of Globe                                |
- 

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- 

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- 

**B.15 SEA WATER TEMPERATURE (Column D)**

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|  | page II-7-7, paragraph 2.7.9 | requirement for entry/<br>proper entry procedure |
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- 

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| c. | page II-9-2, paragraph 2.9.2c(2) | swell period            |
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- 

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| page II-10-1, paragraph 2.10.6a-e | requirement for entry/<br>proper entry procedures |
|-----------------------------------|---|

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